

IN THE SPECIFICATION:

Please AMEND the paragraph of the specification beginning at col. 14, line 25 as follows:

When it is detected at this step 1 that the AC adapter is attached, the processing routine goes to step 2, at which charging of the rechargeable battery 50 is indicated by activating the control circuit 54. In the subsequent step 3, the remaining amount of battery power of the rechargeable battery 50 is read out. Subsequently, at step 4, the output voltage of the current measuring circuit [50] 55 is read to read the charging current flowing through the sense resistor R_0 and this is integrated to update the remaining amount of battery power of the rechargeable battery 50.

IN THE CLAIMS:

Please CANCEL claims 35-88, 113-117 and 130-132 without prejudice or disclaimer.

Please ADD claims 148 through 199 as follows:

148. (NEW) An electronic apparatus connected to an AC adapter which supplies DC power, capable of charging a battery by using power from the AC adapter while making a load operate by using the DC power supplied from the AC adapter, the power given to the load varying based on the state of the load, the electronic apparatus comprising:

a connector which receives the DC power from the AC adapter;

a charger, connected to the battery, which supplies charging power to the battery by using the power from the connector; and

a charge control circuit which controls the charger to control the charging power the charger supplies to the battery so that a sum of the power applied to the load and the power charged to the battery becomes a value assigned in advance.

149. (NEW) An electronic apparatus as set forth in claim 148, further comprising a charging current detector which detects a charging current supplied to the battery, wherein the charge control circuit controls the charging current so that the charging current becomes equal to or lower than a value assigned to the battery, based on a value of the charging current to the battery detected by the charging current detector.

150. (NEW) An electronic apparatus as set forth in claim 148, further comprising a charging voltage detector which detects a charging voltage supplied to the battery, wherein the control circuit controls the charging voltage so that the charging voltage becomes equal to or lower than a value assigned to the battery, based on a value of the charging voltage to the battery detected by the charging voltage detector.

151. (NEW) An electronic apparatus as set forth in claim 148, wherein the value assigned in advance is a maximum permissible supply power of the AC adapter.

152. (NEW) An electronic apparatus as set forth in claim 148, wherein the charge control circuit controls the charging power the charger supplies to the battery, based on sensed information on the power input from the connector, so that a sum of the power applied to the load and the power charged to the battery becomes the value assigned in advance.

153. (NEW) A charging apparatus for charging a battery for an electronic apparatus that is connected to an AC adapter and that is capable of charging the battery by using power from the AC adapter while the electronic apparatus making a load operate by using DC power supplied from the AC adapter, the power given to the load varying based on the state of the load, the charging apparatus comprising:

a charger, connected to the battery, which supplies charging power to the battery by using the power from a connector that is connected to the AC adapter to receive the DC power from the AC adapter; and

a charge control circuit which controls the charger to control the charging power the charger supplies to the battery so that a sum of the power applied to the load and the power charged to the battery becomes a value assigned in advance.

154. (NEW) A charging apparatus as set forth in claim 153, wherein the charge control circuit controls the charging current so that a charging current becomes equal to or lower than the value assigned to the battery, based on a detected value of the charging current to the battery.

155. (NEW) A charging apparatus as set forth in claim 153, wherein the charge control circuit controls a charging voltage so that the charging voltage becomes equal to or lower than a value assigned to the battery, based on a detected value of the charging voltage to the battery.

156. (NEW) A charging apparatus as set forth in claim 153, wherein the value assigned in advance is a maximum permissible supply power of the AC adapter.

157. (NEW) A charging apparatus as set forth in claim 153, wherein the charge control circuit controls the charging power the charger supplies to the battery so that a sum of the power applied to the load and the power charged to the battery becomes the value assigned in advance, based on sensed information on the power input from the connector.

158. (NEW) A charge control circuit for controlling a charger in an electronic apparatus having a connector connected to an AC adapter to receive DC power from the AC adapter, the charger being connected to a battery and supplying charging power to the battery by using the power from the connector, the electronic apparatus making a load operate by using the DC

power supplied from the AC adapter, the power given to the load varying based on the state of the load, the charge control circuit comprising:

a control circuit which controls the charger to control the charging power the charger supplies to the battery so that a sum of the power applied to the load and the power charged to the battery becomes a value assigned in advance.

159. (NEW) A charge control circuit as set forth in claim 158, wherein the control circuit controls a charging current based on a detected value of the charging current to the battery so that the charging current becomes equal to or lower than a value assigned to the battery.

160. (NEW) A charge control circuit as set forth in claim 158, wherein the control circuit controls a charging voltage based on a detected value of the charging voltage to the battery so that the charging voltage becomes equal to or lower than a value assigned to the battery.

161. (NEW) A charge control circuit as set forth in claim 158, wherein the value assigned in advance is a maximum permissible supply power of the AC adapter.

162. (NEW) A charge control circuit as set forth in claim 158, wherein the control circuit controls the charging power the charger supplies to the battery, based on sensed information on the power input from the connector, so that a sum of the power applied to the load and the power charged to the battery becomes the value assigned in advance.

163. (NEW) An electronic apparatus capable of charging a battery by using power from a power source while making a load operate by using the power supplied from the power source, the electronic apparatus comprising:

a charger which supplies charging power to the battery by using the power from the power source;

a detector which detects the power applied to the load;

a charging current detector detects a charging current to the battery; and

a control circuit which controls the charger to generate the charging power so that a sum of the charging power supplied to the battery and the power applied to the load that has been detected becomes a value assigned in advance, and which controls the charging current based on the detected charging current so that the charging current to the battery becomes

equal to or lower than a charging current value assigned in advance to the battery.

164. (NEW) An electronic apparatus capable of charging a battery by using power from a power source while making a load operate by using the power supplied from the power source, the electronic apparatus comprising:

a charger which supplies charging power to the battery by using the power from the power source;

a detector which detects the power applied to the load;

a charging voltage detector which detects a charging voltage to the battery; and

a control circuit which controls the charger to generate the charging power so that a sum of the charging power supplied to the battery and the power applied to the load that has been detected becomes a value assigned in advance, and which controls the charging voltage based on the detected charging voltage so that the charging voltage becomes within a voltage value assigned in advance to the battery.

165. (NEW) An electronic apparatus capable of charging a battery by using power from a power source having a prescribed maximum permissible supply power while making a load operate by using the power supplied from the power source, the electronic apparatus comprising:

a charger which supplies charging power to the battery by using the power from the power source;

a detector which detects the power applied to the load; and

a control circuit which controls the charger to adjust the charger to supply the charging power so that the charging power is the prescribed maximum permissible supply power minus the detected power applied to the load.

166. (NEW) A charging apparatus for an electronic apparatus capable of charging a battery by using power from a power source while the electronic apparatus makes a load operate by using the power supplied from the power source, the charging apparatus comprising:

a charger which supplies charging power to the battery by using the power from the power source; and

a control circuit which controls the charger to generate the charging power so that a sum of the charging power supplied to the battery and the power applied to the load detected

by a detector which detects the power applied to the load becomes a value assigned in advance, and which controls the charging current, based on a charging current value detected by a charging current detector which detects the charging current to the battery, so that the charging current to the battery becomes equal to or lower than a charging current value assigned in advance to the battery.

167. (NEW) A charging apparatus for an electronic apparatus capable of charging a battery by using power from a power source while the electronic apparatus making a load operate by using the power supplied from the power source, the charging apparatus comprising:
a charger which supplies charging power to the battery by using the power from the power source;

and a control circuit which controls the charger to generate the charging power so that a sum of the charging power supplied to the battery and the power applied to the load detected by a detector which detects the power applied to the load becomes a value assigned in advance, and which controls the charging voltage, based on a charging voltage detected by a charging voltage detector which detects the charging voltage of the battery, so that the charging voltage becomes within a voltage value assigned in advance to the battery.

168. (NEW) A charging apparatus for an electronic apparatus capable of charging a battery by using power from a power source having a prescribed maximum permissible supply power while the electronic apparatus makes a load operate by using the power supplied from the power source, the charging apparatus comprising:

a charger which supplies charging power to the battery by using the power from the power source; and

a control circuit which controls the charger so that the charger supplies the charging power so that the charging power is the maximum permissible supply power minus the power applied to the load that has been detected by a detector which detects the power applied to the load.

169. (NEW) A charge control circuit for controlling a charger for an electronic apparatus that makes a load operate by using power supplied from a power source and that has the charger for supplying charging power to a battery by using the power from the power source, the charge control circuit comprising:

a control circuit which controls the charger to generate the charging power so that a sum of the charging power supplied to the battery and the power applied to the load detected by a detector which detects the power applied to the load becomes a value assigned in advance, and which controls a charging current, based on a charging current detected by a charging current detector which detects the charging current to the battery, so that the charging current supplied to the battery becomes equal to or lower than a charging current value assigned in advance to the battery.

170. (NEW) A charge control circuit for controlling a charger for an electronic apparatus that makes a load operate by using power supplied from a power source and that has the charger for supplying charging power to a battery by using the power from the power source, the charge control circuit comprising:

a control circuit which controls the charger to generate the charging power so that a sum of the charging power supplied to the battery and the power applied to the load detected by a detector which detects the power applied to the load becomes a value assigned in advance, and which controls the charging voltage, based on a charging voltage detected by a charging voltage detector which detects the charging voltage of the battery, so that the charging voltage becomes within a voltage value assigned in advance to the battery.

171. (NEW) A charge control circuit for controlling a charger for an electronic apparatus that makes a load operate by using power supplied from a power source having a prescribed maximum permissible supply power and that has the charger for supplying charging power to a battery by using the power from the power source, the charge control circuit comprising:

a control circuit which controls the charger so that the charger supplies the charging power which is the prescribed maximum permissible supply power minus the power applied to the load detected by a detector which detects the power applied to the load.

172. (NEW) An electronic apparatus capable of charging a battery by using power from a power source while making a load operate by using the power supplied from the power source, the power applied to the load from the power source varying based on the state of the load, the electronic apparatus comprising:

a charger which supplies charging power to the battery by using the power from the power source;

a charging current detector which detects a charging current to the battery; and
a charge control circuit which controls the charging power the charger supplies to
the battery so that a sum of the power applied to the load and the power charged to the battery
from the power source becomes a value assigned in advance, and which controls the charging
current based on the charging current detected by the charging current detector so that the
charging current becomes a limit value assigned to the battery or a lower value.

173. (NEW) An electronic apparatus as set forth in claim 172, further comprising:
a charging voltage detector which detects a charging voltage of the battery, wherein the
charge control circuit further controls the charging voltage so that the voltage detected by the
charging voltage detector becomes a value assigned to the battery or lower.

174. (NEW) An electronic apparatus as set forth in claim 172, wherein the pre-assigned
value is a maximum permissible supply power of the power source.

175. (NEW) An electronic apparatus as set forth in claim 172, wherein the charge control
circuit controls the charging power the charger supplies to the battery, based on sensed information
on the input from the power source, so that a sum of the power applied to the load and the power
charged to the battery from the power source becomes the pre-assigned value.

176. (NEW) A charging apparatus for an electronic apparatus that is capable of charging
a battery by using power supplied from a power source while the electronic apparatus making a
load operate by using the power from the power source, the power applied to the load from the
power source varying based on the state of the load, the charging apparatus comprising:

a charger which supplies charging power to the battery by using the power from
the power source; and

a charge control circuit which controls the charging power the charger supplies to
the battery so that a sum of the power applied to the load and the power charged to the battery
from the power source becomes a value assigned in advance, and which controls the charging
current, based on a charging current detected by a charging current detector which detects the
charging current to the battery, so that the charging current becomes a value assigned to the
battery or a lower value.

177. (NEW) A charging apparatus as set forth in claim 176, wherein the charge control circuit further controls the charging voltage so that a charging voltage detected by a charging voltage detector which detects the voltage charged to the battery becomes a value assigned to the battery or lower.

178. (NEW) A charging apparatus as set forth in 176, wherein the pre-assigned value is a maximum permissible supply power of the power source.

179. (NEW) A charging apparatus as set forth in 176, wherein the charge control circuit controls the charging power the charger supplies to the battery, based on sensed information on the input from the power source, so that a sum of the power applied to the load and the power charged to the battery becomes the pre-assigned value.

180. (NEW) A charge control circuit for an electronic apparatus that makes a load operate by using power supplied from a power source and that has a charger for supplying charging power to a battery by using the power from the power source, the power applied to the load from the power source varying based on the state of the load, the charge control circuit comprising:

a control circuit which controls the charging power the charger supplies to the battery so that a sum of the power applied to the load and the power charged to the battery from the power source becomes a value assigned in advance, and which controls the charging current based on a charging current detected by a charging current detector which detects the charging current to the battery so that the charging current becomes a value assigned to the battery or a lower value.

181. (NEW) A charge control circuit as set forth in claim 180, wherein the control circuit further controls the charging voltage so that a charging voltage detected by a charging voltage detector which detects the voltage charged to the battery becomes a value assigned to the battery or lower.

182. (NEW) A charge control circuit as set forth in 180, wherein the pre-assigned value is a maximum permissible supply power of the power source.

183. (NEW) A charge control circuit as set forth in 180, wherein the control circuit controls

the charging power the charger supplies to the battery, based on sensed information on the input from the power source, so that a sum of the power applied to the load and the power from the power source charged from the power source to the battery becomes the pre-assigned value.

184. (NEW) A charge control circuit for an electronic apparatus that has an input section for inputting power from a power source and a charger for charging a battery by using the power from the input section while the electronic apparatus making a load operate by applying the power input from the input section to the load, an output voltage of the power source being substantially a constant voltage, the output voltage of the power source falling to less than said constant voltage when the power source outputs more than a predetermined current value, the power applied to the load from the input section varying based on the state of the load, the charge control circuit comprising:

a control circuit which controls the charging power the charger supplies to the battery, based on power input information obtained by a power input sensor which obtains the power input information by sensing an input of the power from the input section, so that a sum of the power applied to the load and the power charged to the battery from the input section is substantially in a current range in which said output voltage of the power source is substantially the constant voltage, wherein the control circuit controls the charging voltage so that a voltage detected by a charging voltage detector which detects the charging voltage of the battery becomes a value assigned to the battery or lower.

185. (NEW) An electronic apparatus connected to an AC adapter which supplies DC current, capable of charging a battery by using current from the AC adapter while making a load operate by using the DC current supplied from the AC adapter, the current given to the load varying based on the state of the load, the electronic apparatus comprising:

a connector connected to the AC adapter, which receives DC current from the AC adapter;

a charger, connected to the battery, which supplies charging current to the battery by using the current from the connector; and

a charger control circuit which controls the charger to control the charging current the charger supplies to the battery so that a sum of the current applied to the load and the current charged to the battery becomes a value assigned in advance.

186. (NEW) An electronic apparatus as set forth in claim 185, further comprising a charging current detector which detects a charging current supplied to the battery, wherein the charge control circuit controls the charging current so that the charging current becomes equal to or lower than a value assigned to the battery, based on a value of the charging current to the battery detected by the charging current detector.

187. (NEW) An electronic apparatus as set forth in claim 185, further comprising a charging voltage detector which detects a charging voltage supplied to the battery, wherein the control circuit controls the charging voltage so that the charging voltage becomes equal to or lower than a value assigned to the battery, based on a value of the charging voltage to the battery detected by the charging voltage detector.

188. (NEW) An electronic apparatus as set forth in claim 185, wherein the value assigned in advance is a maximum permissible supply current of the AC adapter.

189. (NEW) An electronic apparatus as set forth in claim 185, wherein the charge control circuit controls the charging current the charger supplies to the battery, based on sensed information on the power input from the connector, so that a sum of the current applied to the load and the current charged to the battery becomes the value assigned in advance.

190. (NEW) A charging apparatus for charging a battery for an electronic apparatus that is connected to an AC adapter and that is capable of charging the battery by using current from the AC adapter while the electronic apparatus making a load operate by using DC current supplied from the AC adapter, the current given to the load varying based on the state of the load, the charging apparatus comprising:

a charger, connected to the battery, which supplies charging current to the battery by using the current from a connector that is connected to the AC adapter to receive the DC current from the AC adapter; and

a charger control circuit which controls the charger to control the charging current the charger supplies to the battery so that a sum of the current applied to the load and the current charged to the battery becomes a value assigned in advance.

191. (NEW) A charging apparatus as set forth in claim 190, wherein the charge control

circuit controls the charging current so that a charging current becomes equal to or lower than the value assigned to the battery, based on a detected value of the charging current to the battery.

192. (NEW) A charging apparatus as set forth in claim 190, wherein the charge control circuit controls a charging voltage so that the charging voltage becomes equal to or lower than a value assigned to the battery, based on a detected value of the charging voltage to the battery.

193. (NEW) A charging apparatus as set forth in claim 190, wherein the value assigned in advance is a maximum permissible supply current of the AC adapter.

194. (NEW) A charging apparatus as set forth in claim 190, wherein the charge control circuit controls the charging current the charger supplies to the battery so that a sum of the current applied to the load and the current charged to the battery becomes the value assigned in advance, based on sensed information on input from the connector.

195. (NEW) A charge control circuit for controlling a charger in an electronic apparatus having a connector connected to an AC adapter to receive DC current from the AC adapter, the charger being connected to a battery and supplying charging current to the battery by using the current from the connector, the electronic apparatus making a load operate by using the DC current supplied from the AC adapter, the current given to the load varying based on the state of the load, the charge control circuit comprising:

a control circuit which controls the charger to control the charging current the charger supplies to the battery so that a sum of the current applied to the load and the current charged to the battery becomes a value assigned in advance.

196. (NEW) A charge control circuit as set forth in claim 195, wherein the control circuit controls a charging current based on a detected value of the charging current to the battery so that the charging current becomes equal to or lower than a value assigned to the battery.

197. (NEW) A charge control circuit as set forth in claim 195, wherein the control circuit controls a charging voltage based on a detected value of the charging voltage to the battery so